

Project Title: Irrigation Infrastructure Improvements

[If your Watershed Plan Implementation and Flow Achievement Request is related to or part of a Operational Project Funding Request for 2009-11 please cross-reference the name of that project in parenthesis above]

County: Clallam

WRIA: 18

If more space is needed attach additional sheets

1. Applicant Information		
Applicant name Clallam Conservation District	Phone no. (360) 452-1912x103	Fax no. (360) 452-5088
Address 1601 E. Front St, Bldg/Ste A		
City Port Angeles	State WA	Zip code 98362
Email address joe.holtrop@wa.nacdnet.net		
Water right holder name (If applicable and if other than applicant) Dungeness Irrigation District	Phone Number (360) 683-6746	Fax Number ()
Mailing address 316 Robbins Road		
City Sequim	State WA	Zip code 98382

2. Project Location
Project name Dungeness Irrigation District Phase 3
Project location Dungeness area
Stream reach mile or location Dungeness River Mile 7.2 to mouth

3. Project Type and Description

(Check all that apply)

Conservation and/or infrastructure improvement
(pumps and pipes)



Water storage feasibility study



Water exchange or water right acquisition



Please describe your project in detail

Approximately 8,250 feet of open irrigation ditch will be replaced with pipeline to save an estimated 1.0 cubic feet per second of water (conveyance loss measurements range from 0.46 to 1.35 cfs). In addition to saving water by eliminating conveyance and tailwater losses, discharge of contaminated tailwater to Meadowbrook Creek – a tributary to Dungeness Bay – will be eliminated. This reach of irrigation ditch is the end of the Dungeness Irrigation District system and will connect to a 3,684-foot pipeline to be installed immediately upstream in March of 2009. Pipe size will be 16-inch at the upstream end, then reduce to 12-inch after the first major pumping station.

Use this box to make any other comments regarding the project and water rights involved

This project is part of a multi-phase project that will ultimately result in the piping of the entire Dungeness Irrigation District system. Total estimated water savings expected to be realized from the piping of the entire system are 4 to 6 cfs. This phase will connect to a phase scheduled for completion prior to the 2009 irrigation season. Implementation of these two phases will result in complete piping of the lower 2 ¼ miles of the system and elimination of tailwater at the end. Water savings estimates are based on data collected by Montgomery Water Group in the 1990s and flow measurements recorded by Clallam Conservation District on May 25 and July 31 of 2007.

Describe the project by task (statement of work)

Task 1. Planning and Design

Complete final design and engineering, including any necessary permits and cultural resources surveys by August 31, 2009.

Task 2. Construction

Advertise for bids in September, 2009 and complete construction by November 30, 2009.

Task 3. Project Management and Administration

Ongoing.

4. Project Budget

Project Budget

\$530,000

Total budget by project task or by expenditure

Task 1. Planning and Design: \$30,000

Task 2. Construction: \$495,000

Task 3. Project Management and Administration: \$5,000

5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget): \$80,000 (15%)

Identify sources and type of funding other than through this program grant. Include expected dates of participation. Include as an attachment; letters of commitment, offer letters, application approvals, etc.

Source and type of funding: Irrigation Efficiencies Program

Amount: \$30,000

Status: included in agency budget request

Dates of participation: pending 2010 state budget

Source and type of funding: National Fish and Wildlife Foundation Pioneers in Conservation Grant

Amount: \$25,000

Status: awarded

Dates of participation: awarded March 2008

Source and type of funding: Natural Resources Conservation Service Environmental Quality Incentives Program cost sharing to agricultural producer

Amount: \$25,000

Status: pending Congressional budget approval

Dates of participation: anticipated in early 2009

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

6. Instream Flow and other Instream Habitat Benefits

A. Water Right Information - Attach Water Right documents

(You may skip this section if this application is for Storage Feasibility Study funding)

Water right holder's name (if other than applicant) Dungeness Irrigation District	Phone no: (360) 683-6746	Fax no: ()
Address 316 Robbins Road		
City Sequim	State WA	Zip code 98382
Complete legal description of the property attached to this water right: "Lands within the boundaries of the Dungeness Irrigation District."		
Water right number: S2-*03592CWRIS, S2-*17239J		
Parcel number associated with this water right: Too numerous to list – water right is for an irrigation district with a territory exceeding 1,500 acres.		
Do you own the property proposed for this project? If not, please explain: No, the irrigation ditch traverses multiple privately owned parcels within the irrigation district.		
If the grant applicant is not the water right holder, please explain the reason: Dungeness Irrigation District does not have the capacity to effectively administer grants. Therefore, Clallam Conservation District has entered into an interlocal agreement with the irrigation district to apply for and administer grant funds on their behalf.		
Water source (Stream name). Dungeness River		

B. Water Usage

Has water been put to beneficial use in the past five years?

Yes ☒ No ☐ I don't know ☐

Describe that use in terms of the specific beneficial use during that period:

Although the measurement device at the inlet to the Dungeness Irrigation District system does not accurately measure flows, measurements using a hand-held flow meter recorded an instantaneous diversion of 10.32 cfs May of 2007. This would equate to an annual use of 3,177 acre feet assuming consistent diversions and a 154-day irrigation season; however, water is not always diverted at that rate (the July 31, 2007 measurement was 5.83 cfs), and water is diverted for stock water for an additional 4-5 months beyond the irrigation season. Stock water demand is near the end of the conveyance system, thus a considerable amount of water is diverted and lost in conveyance. The original water right is for 42 cfs.

(Please attach any available documents that verify that use during the last five years. Include aerial photographs, power company records, flow meter records, crop type records, NRCS documentation or FSA records)

Has beneficial use of this water ceased for a period of five or more years during any period since 1967?
Yes ☐ No ☒

Please describe the beneficial use for the water quantified under the water right discussed above. Describe the following: purpose (examples: domestic, irrigation, municipal); system type; if irrigation, describe crop type. Water is used for irrigation of a variety of crops, including hay, pasture, vegetables, small grains, fruit trees, and berries. In addition, water is used for livestock water, lawns, landscaping, and nursery stock.

Quantify as nearly as possible current water use:

Instantaneous rate (QI) of use: 10.42 CFS

Annual rate (QA) of use approximately 4,500 ACRE- FEET

Historic beneficial use quantity of the water right (highest of the last 5 years/ irrigation seasons in instantaneous and annual quantities)

10.42 CFS 4,500 ACRE-FEET

If irrigation, how many acres are irrigated under this water right? ***Approximately 1,500***

Are there other water rights associated with this specific water right? no

In order to process this pre-application ecology requires the following information (include for the previous five years; please attach copies of all documents and maps)

- ◆ Power data (contact local power utility for pump records, etc.) – N/A
- ◆ Historical crop type data (contact local FSA office) – N/A
- ◆ Flow meter records (contact local power utility)
- ◆ Aerial photos (contact local FSA office)

C. Estimated Total Water Savings

Infrastructure projects: Estimate the water to be conserved through this project. Provide engineering or technical analysis to support this estimate.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
QA (ACRE-FEET)	0	0	0	40	77	59	55	49	15	0	0	0	295
QI (CFS)	0	0	0	1.35	1.25	1.0	0.9	0.8	0.5	0	0	0	

D. Additional Instream Benefits

Describe other instream benefits envisioned as a result of funding this project:

Currently, tailwater with high fecal coliform counts is discharged at the end of the conveyance system into Meadowbrook Creek. Meadowbrook Creek is a 303(d)-listed tributary stream to Dungeness Bay. A bacterial Total Maximum Daily Load study was done for the lower Dungeness River area and Dungeness Bay. This study specified bacterial loading reductions in the irrigation ditch system and Meadowbrook Creek. This project will eliminate tailwater discharges to Meadowbrook Creek. In the rare instances when there is excess flow in the ditch system, it will be diverted to toward the Dungeness River at the inlet to the piping upstream of this project at river mile 1.7.

7. Resources currently committed to ensure long-term performance of the proposed project (operation and maintenance).

Who is responsible for long-term operation and maintenance of the project?

Dungeness Irrigation District

Have operation and maintenance costs been identified? Yes ☐ No ☒

If yes, please describe: Operation and maintenance costs of the buried pipeline are anticipated to be minimal over the next several decades, especially compared to the operation and maintenance costs for the existing open ditch system. The irrigation district assesses parcels within the district for operation and maintenance of there system.

Summarize these costs on an annual basis below:

Are measurement devices other than diversion source meters necessary to monitor compliance with the project intent or plan? Yes ☐ No ☒

If yes, please describe:

Does a water measurement device exist on the source and downstream of the proposed project?

☐ yes ☒ no

If no, will a water measurement device be installed as part of this project? Yes ☐ No ☒

If yes, describe location and operating entity: stream gages exist on the Dungeness River and all the irrigation diversions. The Dungeness Irrigation District shares a diversion with the Sequim Prairie Tri Irrigation Association. Approximately one-half mile downstream of the shared fish screen and Parshall flume (<https://fortress.wa.gov/ecy/wrx/wrx/flows/station.asp?sta=18H250>), the Dungeness District canal splits off from the Sequim Prairie canal. At that point roughly half the flow goes into the Dungeness District canal; however, accurate measurements are recorded for the Sequim Prairie canal but not the Dungeness District canal. A new measurement device is planned for the beginning of the Dungeness Irrigation District system as part of a piping phase that will be completed before the 2009 irrigation season. The pipeline will be closed at the end, thus there will be no measurement downstream of the project.

If yes, provide the river mile:

What is the nearest stream gage downstream of the proposed project? Source name

USGS at Schoolhouse Bridge

River mile : 0.9

8. Proponent's Readiness to Proceed

Describe status of feasibility reports, engineering design, and permits. Provide documentation for these deliverables and describe the project effort timeline as appropriate (submit two (2) copies of all required documents).

Preliminary engineering has been completed, including determination of pipe sizes. Final engineering, including preparation of construction drawings and specifications must be done.

Does the project proponent own the land for the proposed project? If not, does the proponent have documented access to the right of way or owns an easement to the property proposed (please attach appropriate documentation including title report as applicable).

The land consists of the existing irrigation ditch and right of way of the irrigation district. Notification is given to each landowner prior to construction and easements are typically recorded when open ditches are replaced with buried pipelines.

Design/Engineering Status:

Pre-planning (pre - permitting)	<input checked="" type="checkbox"/>	Status: complete
Pre-design (design reports) (10%)	<input checked="" type="checkbox"/>	Status: complete
Schematic design (30%)	<input checked="" type="checkbox"/>	Status: complete
Design development (75%)	<input checked="" type="checkbox"/>	Status: complete
Construction documents (95%)	<input type="checkbox"/>	Status: to be done
Bid documents (ready for bid)	<input type="checkbox"/>	Status: to be done

Permit Status

SEPA	<input type="checkbox"/>	Status: N/A
401	<input type="checkbox"/>	Status: N/A
Dept. of Fish and Wildlife consultation	<input type="checkbox"/>	Status: N/A
Storage and/or Secondary Use Permit	<input type="checkbox"/>	Status: N/A
Other: (County Road Right of Way__)	<input type="checkbox"/>	Status: to be applied for
Other:(_____)	<input type="checkbox"/>	Status:
Other: (_____)	<input type="checkbox"/>	Status:

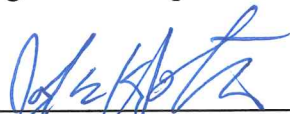
9. Signatures (send this sheet electronically and by original signature in surface mail)

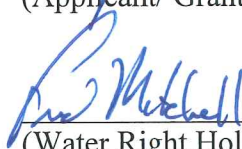
I certify that the information above is true and accurate to the best of my knowledge.

I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes.

If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me.

I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.

 1 / 20 / 09
(Applicant/ Grant Recipient) (Date)

 PRES. Dungeness Irrig. Dist. 1 / 20 / 2009
(Water Right Holder) (Date)

(Land Owner(s) of Existing Place of Use) / /
(Date)

For More Information Contact:

Dave Burdick

Voice: (360) 407-6094

Email: dbur461@ecy.wa.gov

Web: <http://www.ecy.wa.gov/watershed/Index.html>

If you need this document in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

Dungeness Irrigation District



Dungeness Bay

End of System

Cameron
EQIP Phase

Pond

Legend

Ditch & Pipeline

<all other values>

Status

Abandoned Ditch

Ditch

Pipe

Shared Ditch

DID parcels

Dungeness Irrigation District

Phase 1

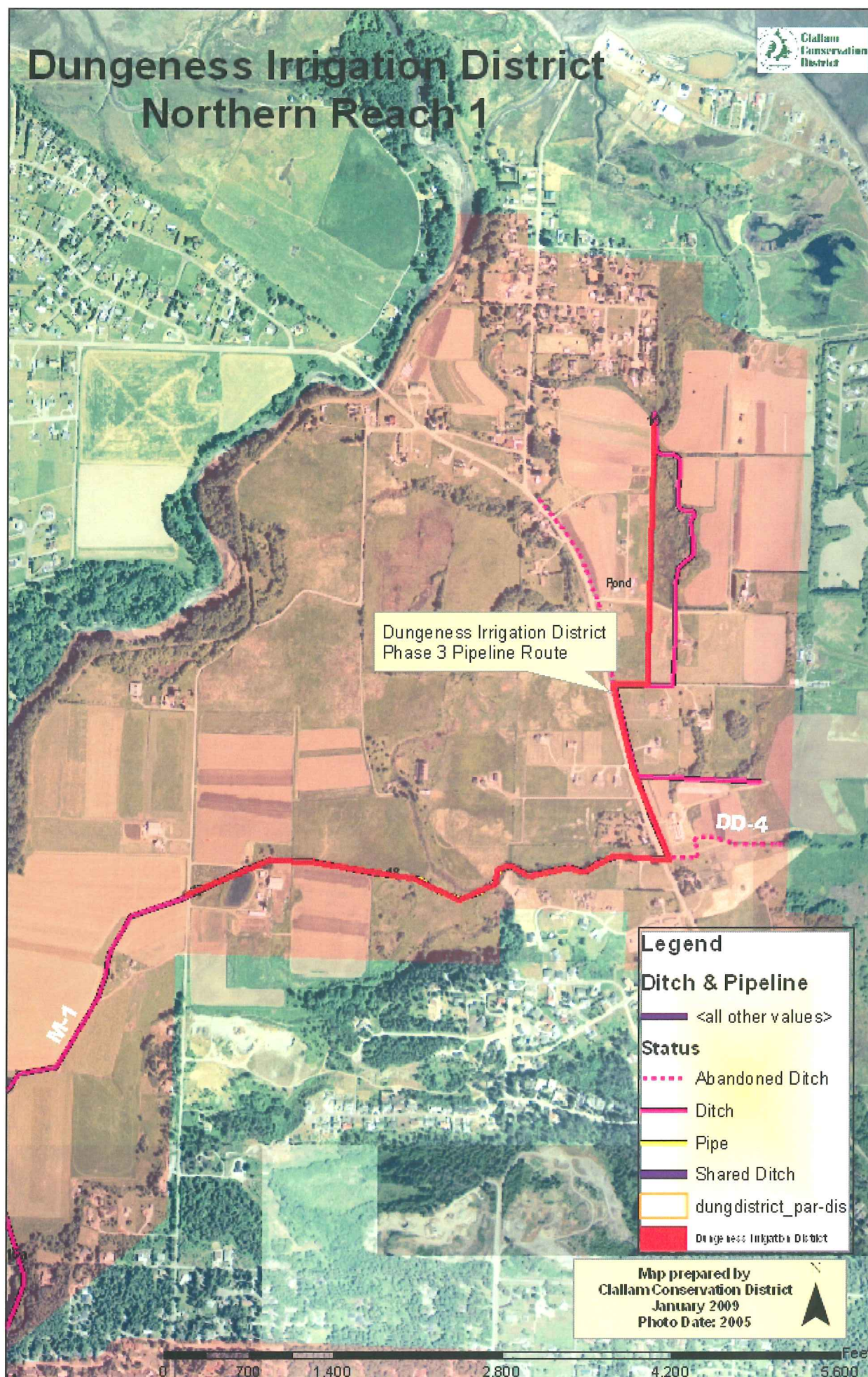
Split with
Sequim Prairie
Canal

Map prepared by
Clallam Conservation District
November 2007
Photo Date: 2005



0 2,125 4,250 8,500 12,750 17,000 Feet

Dungeness Irrigation District Northern Reach 1



Dungeness Irrigation District
Phase 3 Pipeline Route

Pond

DD-4

Legend

Ditch & Pipeline

<all other values>

Status

Abandoned Ditch

Ditch

Pipe

Shared Ditch

dungdistrict_par-dis

Dungeness Irrigation District

Map prepared by
Clallam Conservation District
January 2009
Photo Date: 2005



0 700 1,400 2,800 4,200 5,600 Feet

Certificate of Water Right

THIS IS TO CERTIFY:

That by virtue of a decree of the Superior Court of the State of Washington in and for
Clallam County, made and entered on the 7th day of
March, 1924, and recorded in Volume 21 of the Superior Court
Journal of said County at page 320, from which decree no appeal was taken, and which decree
determined the rights of all known claimants to the use of the waters of
Dungeness River a tributary of Juan de Fuca Strait
DUNGENESS IRRIGATION DISTRICT, SEQUIM, WASHINGTON

is entitled to use, subject to the laws of the State of Washington, the waters of said
DUNGENESS RIVER
for the purpose of irrigation during the period from April 15th
to September 15th each year and for the purpose of stock and domestic
use continuously.

That the amount of water to which said water right is entitled is limited to the quantity which
is reasonably and actually necessary for the purpose aforesaid and shall not exceed
42.0 second feet for the irrigation of 2100 acres of
the lands hereinafter described.

That the date of priority of said water right is Mar. 1921; that
the decree aforesaid establishes said right in Class 15, which said class
includes a total maximum of 42.0 second feet; that the possible
maximum amount of water which is comprehended in rights prior to this right is
557.55 second feet.

That the point of diversion of said water right is as follows:

RP2 of RP2 of Section 26, Township 50 North, Range 4 N W N

and cannot be changed except as provided in Section 39, Chapter 117, Session Laws of 1917.

That said water right was adjudged by said decree to be and is appurtenant to the following
described real property situated in Clallam County, Washington, to wit:
Lands within the boundaries of the irrigation district.

This instrument is recorded in the office of the Supervisor of Hydraulics, at Olympia, Washington, in Volume 2 of Water Right Certificates at Page 239

WITNESS the seal and signature of the Supervisor of Hydraulics affixed this 14th day of May, 192 4

(S E A L)

MARVIN CHASE

Supervisor of Hydraulics of the State of Washington.

Certificate of Water Right

Issued to Dungeness Irrigation

District

For the use of the waters of

Dungeness River

County of Clallam

State of Washington.